

S1 1 PN="2-1 21"  
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DIALOG(R)File 347:JAPIO  
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03149021 \*\*Image available\*\*  
VIBRATION COMPENSATING ZOOM LENS

PUB. NO.: 02-124521 [JP 2124521 A]  
PUBLISHED: May 11, 1990 (19900511)  
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APPL. NO.: 01-175298 [JP 89175298]  
FILED: July 06, 1989 (19890706)  
INTL CLASS: [5] G02B-027/64; G02B-015/14  
JAPIO CLASS: 29.2 (PRECISION INSTRUMENTS -- Optical Equipment)  
JOURNAL: Section: P, Section No. 1084, Vol. 14, No. 349, Pg. 36, July  
27, 1990 (19900727)

#### ABSTRACT

PURPOSE: To eliminate variation in compensation coefficient even if the focal length of the whole system varies and to enable uniform control by controlling the power of a vibration compensating lens group.

CONSTITUTION: The vibration compensating lens group 20 is arranged adjacently to the side of the image plane 30 of a power varying lens group 10 with focal length  $f_1$ . Here,  $mc=1/(1+(f_1/A))$  holds for the image power  $mc$  of the vibration compensating lens group 20 and the composite focal length  $f_1$  of the lens group on the object side as compared with the vibration compensating lens group 20. Here,  $A$  is an optional constant. Consequently, the uniform control is performed without varying the ratio of the quantity of compensation displacement for a shake angle to the focal length of a system which varies by zooming.

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DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
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Basic Patent (No,Kind,Date): JP 2124521 A2 900511 <No. of Patents: 003>

**VIBRATION COMPENSATING ZOOM LENS** (English)

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IPC: \*G02B-027/64; G02B-015/14

JAPIO Reference No: 140349P000036

Language of Document: Japanese

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
JP 2124521	A2	900511	JP 89175298	A	890706	(BASIC)
JP 2816714	B2	981027	JP 89175298	A	890706	
US 5039211	A	910813	US 386227	A	890728	

Priority Data (No,Kind,Date):

JP 88188647	A1	880728
JP 88188647	A	880728
JP 89175298	A	890706

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